

Appl. No.: 10/631,907
Amdt. dated 05/12/2006
Reply to Office Action of 03/14/2006

Amendments to the Claims:

Claims 1-37. (cancelled)

38. (previously presented) A rivet comprising:
a shank having a head at one end thereof; and
wherein said shank and said head consist essentially of a grain structure having a grain size between about 3 microns and 5 microns.

39. (previously presented) A rivet according to Claim 38 wherein said shank and said head comprise a material selected from the group consisting of aluminum, an aluminum alloy, titanium, and a titanium alloy.

40. (previously presented) A rivet according to Claim 38 wherein the end of said shank opposite said head is adapted to be upset to form a second head.

41. (previously presented) A rivet according to Claim 38 wherein said shank and said head comprise a refined grain structure formed by stirring with a friction stir welding probe.

42. (previously presented) A rivet according to Claim 38 wherein said shank and said head comprise aluminum.

43. (previously presented) A rivet according to Claim 38 wherein said shank and said head comprise AA 2195-T6 aluminum alloy.

44. (previously presented) A rivet according to Claim 38 wherein said shank and said head consist essentially of a series 2000 aluminum alloy.

45. (previously presented) A rivet according to Claim 38 wherein said shank and said head consist essentially of AA 2195-T6 aluminum alloy.

46. (previously presented) A rivet according to Claim 38 wherein said shank and said head consist essentially of AA 2017-T4 aluminum alloy.